

2013 Lake Fields, Lake Long, Company Canal Vegetation Control Plan

LDWF, Inland Fisheries

1. Waterbody type – Lake Fields – shallow natural lake, Company Canal – manmade canal, Lake Long – shallow natural lake
2. Surface area range – Lake Fields – 2,313 acres, Company Canal – approximately 15 miles long and 250 feet wide, Lake Long – 900 acres
3. Average depth – 3 ft
4. Watershed ratio – Unknown
5. Waterbody Board or Lake Commission – Lafourche Parish Game and Fish Commission
Creation / Nomination –
Lake Long – Lafourche Parish Game and Fish Commission (LGFC)
Lake Long – LGFC – (985) 532 - 3131
RS 56:722.1 (appendix B)

Lake Fields – Fish and wildlife resources are managed by the Louisiana Department of Wildlife and Fisheries. RS 36:610 (Appendix C)

Company Canal – Fish and wildlife resources are managed by the Louisiana Department of Wildlife and Fisheries.

Primary contact information –Lake Fields/Company Canal – Rachel Walley –
District 7 Inland Fisheries Biologist Manager – (225)765 – 2336

What significant stakeholders use the lake?

Company Canal is connected to Bayou Lafourche in the town of Lockport. It provides access to Lake Long and Lake Fields for recreational fishermen, commercial fishermen, camp owners, hunters, and trappers.

What are their needs and concerns? What is the history of aquatic vegetation complaints?

Lake Fields, Lake Long, and Company Canal suffer from high turbidity due to the connection to the Intracoastal Waterway. There are plans to create a diversion in order to decrease turbidity in the lake. Currently, the aquatic plant control efforts focus primarily on the surrounding canals. Lake Fields and Lake Long receive many complaints due to the large amount of floating vegetation. This floating vegetation can block access and other recreational opportunities. One crew in Inland Fisheries District 8 devotes most of their time to this area.

Aquatic Vegetation Status: Have there been any controversial issues on the lake?
Floating vegetation (primarily water hyacinth) enters Company Canal via Bayou Lafourche. Water hyacinth then floats into Lake Fields and Lake Long. Water hyacinth is not being sprayed in Bayou Lafourche between Raceland and Valentine (see appendix A). Control efforts are limited due to the inability to treat the source of the problem in Bayou Lafourche.

Predictions for 2013:

Lake Fields-

Problematic Species-

- Giant Salvinia (*Salvinia molesta*) – 30 acres
- Water Hyacinth (*Eichornia crassipes*) – 1,200 acres
- Alligator weed (*Alternanthera philoxeroides*) – 100 acres
- Pennywort (*Hydrocotyle ranunculoides*) – 50 acres
- Sedge (Cyperaceae) – 50 acres
- Common Salvinia (*Salvinia minima*) – 30 acres
- Hydrilla (*Hydrilla verticillata*) – 50 acres

Beneficial Species-

- Coontail (*Ceratophyllum demersum*) – 100 acres
- Fanwort (*Cabomba caroliniana*) – 75 acres

Lake Long-

Problematic Species-

- Giant Salvinia (*Salvinia molesta*) – 50 acres
- Water Hyacinth (*Eichornia crassipes*) – 500 acres
- Alligator weed (*Alternanthera philoxeroides*) – 80 acres
- Pennywort (*Hydrocotyle ranunculoides*) – 100 acres
- Sedge (Cyperaceae) – 200 acres
- Common Salvinia (*Salvinia minima*) – 50 acres
- Hydrilla (*Hydrilla verticillata*) – 50 acres
- Eurasian Water Milfoil (*Myriophyllum spicatum*) – 100 acres

Beneficial Species-

- Coontail (*Ceratophyllum demersum*) – 100 acres
- Fanwort (*Cabomba caroliniana*) – 30 acres

Company Canal-

Problematic Species-

- Giant Salvinia (*Salvinia molesta*) – 20 acres
- Water Hyacinth (*Eichornia crassipes*) – 1200 acres
- Alligator weed (*Alternanthera philoxeroides*) – 150 acres
- Pennywort (*Hydrocotyle ranunculoides*) – 120 acres
- Sedge (Cyperaceae) – 100 acres
- Common Salvinia (*Salvinia minima*) – 20 acres
- Hydrilla (*Hydrilla verticillata*) – 100 acres

Beneficial Species-

- Coontail (*Ceratophyllum demersum*) – 75 acres

Fanwort (*Cabomba caroliniana*) – 40 acres

Limitations:

Tidal influence can interfere with herbicide treatments. Lakes Fields and Long are shallow, natural coastal lakes that, at times, can be difficult to spray. Due to the resolution prohibiting the use of 2,4-D in Bayou Lafourche between Raceland and Valentine, aquatic vegetation control cannot be conducted at the source of the infestation.(Appendix A).

Past Control Measures:

Water hyacinth is controlled with 2, 4-D at a rate of 0.5 gallons per acre.

Common salvinia is controlled with diquat (0.75 gallons per acre) with a non-ionic surfactant (0.25 gallons per acre).

Giant salvinia is controlled with a combination of diquat (0.25 gallons per acre) and glyphosate (0.75 gallons per acre) with Aqua King Max (0.25 gallons per acre) and Thoroughbred (12 ounces per acre).

Pennywort is controlled with 2, 4-D at a rate of 0.5 gallons per acre.

Alligator weed is controlled with 2, 4-D at a rate of 0.5 gallons per acre.

Sedge is controlled with diquat (0.75 gallons per acre) with a non-ionic surfactant (0.25 gallons per acre).

Diquat (0.75 gallons per acre) with a non-ionic surfactant (0.25 gallons per acre) can be used where 2, 4-D is not permitted.

Glyphosate (0.75 gallons per acre) with a non-ionic surfactant (0.25 gallons per acre) can also be used where 2, 4-D is not permitted during the warmer months when plants are actively growing.

Lake Fields is sprayed about 1-2 times per week during the growing season. Water hyacinth is the majority of the problem averaging approximately 1,400 acres annually. Alligator weed, pennywort, giant salvinia, common salvinia, and sedge combine for about 250 acres annually. In 2012, a total of 1146 acres of vegetation were treated with herbicides.

Company Canal is sprayed about 1-2 times per week during the growing season. Water hyacinth is the majority of the problem averaging approximately 600 acres annually. Alligator weed, pennywort, giant salvinia, common salvinia, and sedge combine for about 300 acres annually. 1431 acres of vegetation were treated in this canal in 2012.

Lake Long has historically been treated by the USACE. Lake Long is very shallow and suffers annually from a submerged vegetation problem. The main problem however, is floating vegetation (mainly water hyacinth) that accumulates on the fringe of the main lake and even more so in the canal system on the southeast side of the lake. In 2012, 1012 acres of vegetation were treated in Lake Long.

Giant salvinia weevils were stocked throughout this area in 2011, March 2012, and September 2012.

Recommendations:

Continue herbicide applications to aquatic vegetation at the rates listed above with two exceptions. Giant salvinia will be treated with a mix of glyphosate (0.75 gal/acre) and diquat (0.25 gal/acre) with Aqua King Plus (0.25 gal/acre) and Thoroughbred (8 oz/acre) surfactants from April 1-October 31. Outside of this time frame, diquat (0.75 gal/acre) with Aqua King Plus (0.25 gal/acre) and Thoroughbred (8 oz/acre) should be used. Alligator weed infestations will be treated with Imazapyr (0.5 gal/acre) and Inergy (0.25 gal/acre) surfactant in undeveloped areas. In areas with developed shorelines or cypress or gum tree growth, Clearcast (0.5 gal/acre) will be used with Inergy surfactant.

Visit the area at least once a month to assess plant coverage. Weevil establishment and effects will be assessed with samples taken during initial site visits in spring 2013. Stocking of weevils in this area should continue annually.

Based on the large amount of vegetation that was treated with herbicide by LDWF spray crews in 2012, contract boat applications should be utilized in this area in 2013, possibly including the use of helicopter herbicide applications. The prevalence of large, open areas and straight, uninhabited canal stretches are considered conditions that are favorable for helicopter applications. The severity, density, and location of infestation will dictate the utilization/non-utilization of helicopter applications.

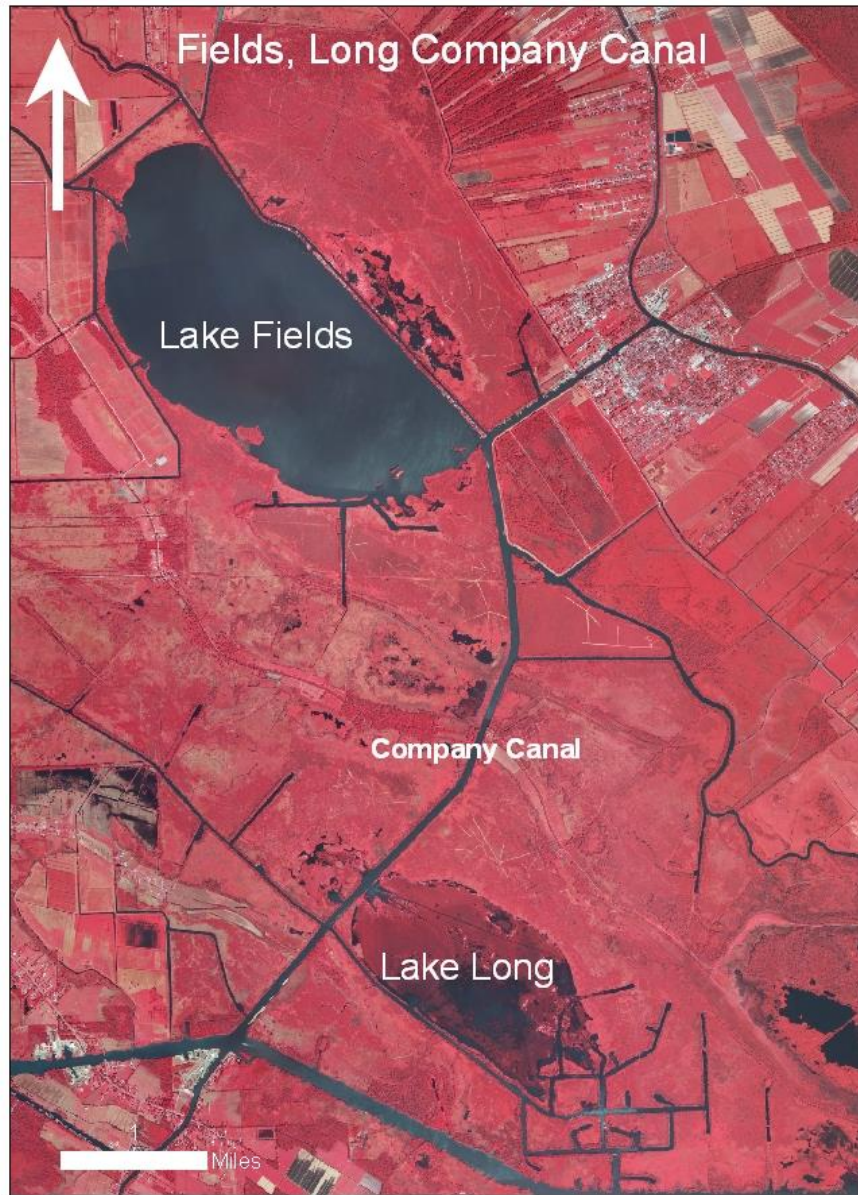
The primary bodies of water that should be treated with contract applications are as follows (also see map, Appendix D):

- Lake Fields and immediately adjacent canals (excluding Camp Canal)
- Little Lake Fields
- Lake Long and immediately adjacent canals
- Little Lake Long
- Company Canal - from its intersection with Bayou Lafourche (near Hwy. 1) west to its intersection with Bayou Terrebonne (near Hwy. 24)

The remainder of this area, including Camp Canal, Intracoastal Waterway, Folse Bayou, Bayou Cut-off, Bayou L'Eau Bleu, and Bayou Lafourche would be controlled by LDWF spray crews on an as needed basis.

Site visits will be made to this area beginning in late winter/early spring 2013, and continue monthly until it is determined that a contract herbicide application should be initiated. Once contract herbicide applications begin, the area should continue to be monitored for effectiveness of herbicide applications, as well as to monitor re-infestation of new vegetation. It is presumed that this area will need multiple herbicide applications through-out the growing season, at least monthly or bi-monthly.

Map:



Appendix A.

On motion by Phillip Gouaux, and seconded by Joe Fertitta, the following resolution was introduced and adopted:

RESOLUTION NO. 09-202

RESOLUTION REQUESTING THAT THE CONTROL OF WATERHYACINTH IN BAYOU LAFOURCHE BETWEEN RACELAND AND VALENTINE BE CONTROLLED BY METHODS OTHER THAN THE SPRAYING OF 2-4-D.

WHEREAS, it is the duty upon oath that the Governing Authority and State Officials address concerns dealing with the general health, safety and welfare of the citizens and said resolution satisfies this criteria; and

WHEREAS, the chemical 2-4-D has been proven to be a cancer causing carcinogen; and

WHEREAS, the drinking water for Lafourche Parish and a sizeable portion of Terrebonne Parish comes from Bayou Lafourche in the area stated above; and

WHEREAS, we the Lafourche Parish Council feel that in the interest of the safety of the people of our great Parish request that other methods should be used to control any and all water type vegetation.

BE IT RESOLVED, by the Lafourche Parish Council convened in regular session on June 9, 2009, that it does hereby request that the control of water hyacinth in Bayou Lafourche between Raceland and Valentine be controlled by methods other than the spraying of 2-4-D.

BE IT FURTHER RESOLVED, that a certified copy of this resolution be forwarded to the Louisiana Department of Wildlife and Fisheries; and the Office of the Parish Administrator.

This resolution having been submitted to a vote, the vote thereon was as follows:

YEAS: Mr. Jerry Jones
Mr. Michael Delatte
Mr. Louis Richard
Mr. Joseph "Joe" Fertitta
Mr. Matt Matherne
Mr. Lindel Toups
Mr. Phillip Gouaux
Mr. Rodney Doucet
Mr. Daniel Lorraine

NAYS: None

ABSENT: None

And the resolution was declared adopted this 9th day of June, 2009.

JERRY JONES, CHAIRMAN
LAFOURCHE PARISH COUNCIL

CARLEEN B. BABIN, COUNCIL CLERK
LAFOURCHE PARISH COUNCIL

* * * * *

I, CARLEEN B. BABIN, Council Clerk for the Lafourche Parish Council, do hereby certify that the foregoing is a true and correct copy of Resolution No. 09-202, adopted by the Assembled Council in Regular Session on June 9, 2009, at which meeting a quorum was present.

GIVEN UNDER MY OFFICIAL SIGNATURE AND SEAL OF OFFICE THIS 29TH, DAY OF JUNE, 2009.

CARLEEN B. BABIN, COUNCIL CLERK
LAFOURCHE PARISH COUNCIL

Appendix B.

§722.1. Game and fish commissions, Lafourche Parish

A. The governing authority of Lafourche Parish may appoint one or more game and fish commissions, each of which may be composed of seven citizens and taxpayers of the parish, whose terms shall be at the pleasure of the governing authority of Lafourche Parish, and who shall serve without compensation. The commission may make rules and regulations as provided in R.S. 56:722, including provisions for leasing of land within Lafourche Parish which is necessary to carry out the provisions of this Section.

B. The Lafourche Parish Game and Fish Commission may govern, regulate, and control Lake Long in Lafourche Parish in the manner provided in this Subpart.

Added by Acts 1982, No. 717, §1; Acts 2010, No. 384, §1.

Appendix C.

§610. Transfer of agencies and functions to Department of Wildlife and Fisheries

A. The transfers hereinafter made in this Section shall be effective as provided in Chapter 24 of this Title.

B. The following agencies, as defined in R.S. 36:3, are transferred to and hereinafter shall be within the Department of Wildlife and Fisheries, as provided in R.S. 36:802.

(1) The Wildlife and Fisheries Commission (Article IX, Section 7 of 1974 Louisiana Constitution; R.S. 34:341-34:343; R.S. 56:1-56:28; 56:61-56:801; 56:1437; 56:1452; 56:1464-56:1464.4)

(2) Gulf States Marine Fisheries Commission (R.S. 56:71 et seq.)

(3) Northwest Louisiana Game and Fish Preserve (Act No. 191 of 1926 Regular Session, as amended)

(4) Iatt Lake State Game and Fish Preserve (Act No. 27 of 1940 Regular Session, as amended, and Act 244 of the 1962 Regular Session)

(5) Saline Lake Game and Fish Preserve (Act No. 105 of 1976 Regular Session, as amended)

(6) Nantachie Lake State Game and Fish Preserve (Act No. 440 of the 1966 Regular Session, as amended)

(7) The Oyster Task Force (R.S. 56:421)

(8) The Crab Task Force (R.S. 56:331)

(9) The Mullet Task Force (R.S. 56:333.2)

(10) Louisiana Environmental Education Commission (R.S. 30:2503)

(11) The Shrimp Task Force (R.S. 56:494)

C. Notwithstanding any provisions of R.S. 56:801 to the contrary, the game and fish commissions created by the following Acts, as amended, are hereby abolished, and their powers, duties, functions, and responsibilities are transferred to the secretary of the Department of Wildlife and Fisheries and hereafter shall be exercised and performed as provided in Part IV of Chapter 22 of this Title, and the game and fish preserves created by the following Acts, as amended, are hereby placed within the Department of Wildlife and Fisheries and shall exercise and perform their powers, duties, functions, and responsibilities as provided for agencies transferred in accordance with the provisions of Part II of Chapter 22 of this Title. Any parish or parishes, by formal resolution of the governing authority of each parish affected, pursuant to R.S. 56:721 et seq., may appoint a game and fish commission which may exercise those powers, duties, and functions provided in R.S. 56:721 et seq. in relation to the game and fish preserves for which commissions are hereby abolished.

(1) Repealed by Acts 1995, No. 116, §2.

(2) Bayou Bonne Idee Game and Fish Commission (Act No. 248 of the 1952 Regular Session, as amended)

(3) Bayou Pierre State Game and Fish Commission (Act No. 139 of the 1934 Regular Session, as amended)

(4) Beauregard Old River Game and Fish Preserve Commission (Act No. 266 of 1958 Regular Session, as amended)

(5) Bundicks Game and Fish Commission (Act No. 33 of 1956 Regular Session, as amended)

(6) Cocodrie Lake Game and Fish Commission (Act No. 38 of 1957 Regular Session, as amended)

(7) Lake Fields Game and Fish Management Commission (Act No. 379 of 1966 Regular Session, as amended)

(8) St. Martin-Lafayette Game and Fish Preserve (Act No. 337 of 1950 Regular Session, as amended)

(9) Spanish Lake State Game and Fish Commission (Act No. 261 of the 1940 Regular Session, as amended)

(10) Repealed by Acts 1995, No. 1262, §1.

(11) Cornie Lake Game and Fish Preserve (Act No. 190 of 1934 Regular Session, as amended)

(12) Turkey Creek Game and Fish Preserve (Act No. 159 of 1938 Regular Session, as amended)

(13) West Atchafalaya Floodway Game and Fish Management Preserve (Act No. 565 of 1960 Regular Session, as amended)

(14) Hard Water Lake State Game and Fish Preserve (Act No. 560 of 1968 Regular Session, as amended)

D. The following agencies, as defined in R.S. 36:3, are hereby placed within the Department of Wildlife and Fisheries and shall exercise and perform their powers, duties, functions, and responsibilities as provided for agencies transferred in accordance with the provisions of Part II of Chapter 22 of this Title:

(1) Lake Catherine and Lake Pontchartrain Sanctuary (Acts 1954, No. 476, as amended)

(2) Catahoula Lake Game and Fish Preserve (Acts 1952, No. 320, as amended)

(3) Lake Bistineau State Game and Fish Preserve (Acts 1930, No. 43, as amended)

(4) Black Bayou Game and Fish Preserve (Act 39 of the 1940 Regular Session, as amended)

(5) Cheniere Brake Fish Preserve (Act 88 of the 1940 Regular Session, as amended)

E. The Louisiana Seafood Promotion and Marketing Board, R.S. 56:578.1 through 578.10, is placed within the Department of Wildlife and Fisheries and shall perform and exercise its duties, powers, functions, and responsibilities as provided for agencies transferred in accordance with the provisions of R.S. 36:802.5.

F. The Lake Fausse Point and Grande Avoille Cove Advisory Board (R.S. 56:796) is hereby placed within the Department of Wildlife and Fisheries and shall exercise its powers, duties, functions, and responsibilities as provided in R.S. 36:918.

G. The following agencies, as defined in R.S. 36:3, are placed within the Department of Wildlife and Fisheries and shall exercise and perform their powers, duties, functions, and responsibilities in the manner provided for agencies transferred in accordance with Part III of Chapter 22 of this Title:

(1) The Reptile and Amphibian Task Force (R.S. 56:632 et seq.)

(2) The Hunting and Fishing Advisory Education Council (R.S. 56:699.21 et seq.)

H. The Louisiana Artificial Reef Development Council (R.S. 56:639.6) is placed within the Department of Wildlife and Fisheries and shall exercise and perform its powers, duties, functions, and responsibilities in the manner provided for agencies transferred in accordance with Part III of Chapter 22 of this Title.

I. The Louisiana Fur Advisory Council (R.S. 56:266(C)) is placed within the Department of Wildlife and Fisheries and shall exercise and perform its powers, duties, functions, and

responsibilities in the manner provided for agencies transferred in accordance with Part III of Chapter 22 of this Title.

J. The Louisiana Aquatic Invasive Species Council and the Louisiana Aquatic Invasive Species Advisory Task Force (R.S. 56:360.1 et seq.) are placed within the Department of Wildlife and Fisheries and shall exercise and perform their powers, duties, functions, and responsibilities in the manner provided for agencies transferred in accordance with Part III of Chapter 22 of this Title.

K. The White Lake Property Advisory Board (R.S. 56:799.1-799.6) is placed within the Department of Wildlife and Fisheries and shall exercise and perform its powers, duties, functions, and responsibilities in the manner provided for agencies transferred in accordance with R.S. 36:801.

L. The Louisiana Alligator Advisory Council (R.S. 56:278) is placed within the Department of Wildlife and Fisheries and shall exercise and perform its powers, duties, functions, and responsibilities in the manner provided for agencies transferred in accordance with Part III of Chapter 22 of this Title.

M. The Coastal Land Stewardship Authority (R.S. 56:901) is placed within the Department of Wildlife and Fisheries and shall exercise and perform its powers, duties, functions, and responsibilities in the manner provided for agencies transferred in accordance with R.S. 36:801.

N. The Oyster Seed Ground Vessel Permit Appeals Board (R.S. 56:433.1(C)) is placed within the Department of Wildlife and Fisheries and shall exercise and perform its powers, duties, functions, and responsibilities in the manner provided for agencies transferred in accordance with Part III of Chapter 22 of this Title.

Acts 1976, No. 513, §1. Amended by Acts 1977, No. 83, §1, eff. June 22, 1977; Acts 1981, No. 422, §1; Acts 1981, No. 490, §2; Acts 1981, No. 858, §1, eff. Jan. 1, 1982; Acts 1981, No. 890, §2; Acts 1984, No. 883, §1, eff. Aug. 1, 1985; Acts 1984, No. 911, §1; Acts 1986, No. 100, §2, eff. June 23, 1986; Acts 1986, No. 120, §1; Acts 1986, No. 455, §2, eff. July 2, 1986; Acts 1989, No. 662, §8, eff. July 7, 1989; Acts 1990, No. 562, §1; Acts 1995, No. 116, §2; Acts 1995, No. 1262, §1; Acts 1999, No. 439, §1; Acts 2001, No. 57, §1, eff. May 24, 2001; Acts 2001, No. 116, §1, eff. May 25, 2001; Acts 2004, No. 185, §1, eff. June 10, 2004; Acts 2004, No. 613, §1, eff. Jan. 1, 2005; Acts 2005, No. 428, §1, eff. July 1, 2005; Acts 2008, No. 272, §1; Acts 2008, No. 544, §2, eff. July 1, 2008; Acts 2008, No. 548, §1; Acts 2008, No. 922, §1, eff. July 14, 2008; Acts 2009, No. 361, §2; Acts 2010, No. 606, §1; Acts 2010, No. 861, §17.

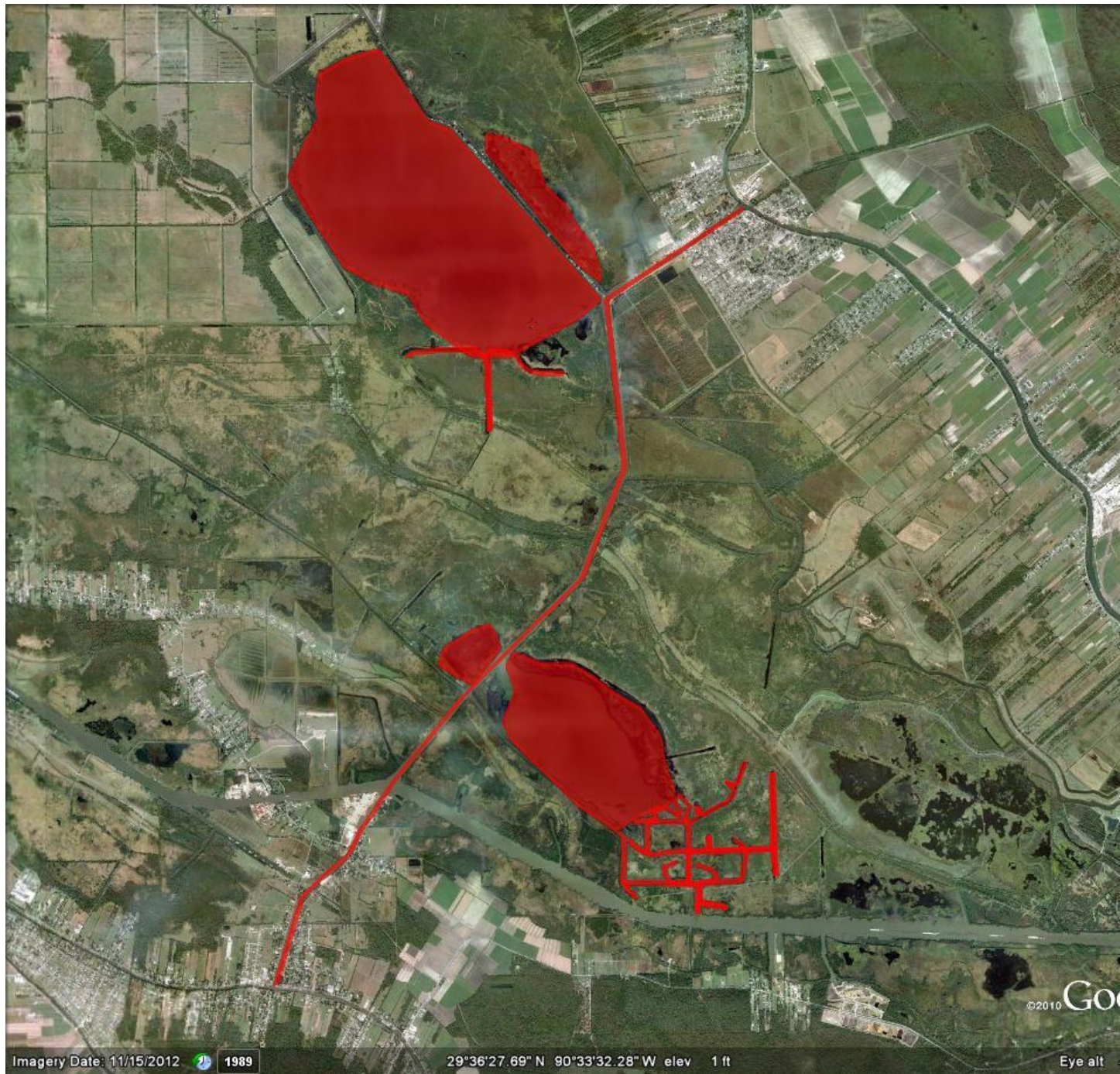
NOTE: See Acts 1990, No. 562, §3.

NOTE: See Acts 2004, No. 613, §3, relative to existing agricultural leases involving the White Lake property.

NOTE: See Acts 2008, No. 544, §§5 and 6, eff. July 1, 2008, relative to implementation of the abolition of the office of environmental education in the governor's office and creation of a new office in the Dept. of Wildlife and Fisheries and changing references.

NOTE: See Acts 2008, No. 922, §§ 3 and 4, eff. July 14, 2008, relative to adoption of rules and applicability.

Appendix D.



Map of areas to be contracted in year 2013